

## Curriculum Vitae

Dra. Scaffardi, Lucía B.

**DIRECCION PROFESIONAL:** Centro de Investigaciones Ópticas (CIOp). Camino Parque Centenario y 506, Gonnet

**DIRECCION POSTAL:** Centro de Investigaciones Ópticas (CIOp), Casilla de Correo 3, 1897, Gonnet, La Plata, Argentina

**TELEFONOS:** Centro de Investigaciones Ópticas (CIOp)  
Nacional: (221) 484-0280; (221) 484-2957; (0221) 471-5249

**FAX:** (54) 221 471-2771

**E-MAIL:** [lucias@ciop.unlp.edu.ar](mailto:lucias@ciop.unlp.edu.ar) ; [luciascaffardi@yahoo.com.ar](mailto:luciascaffardi@yahoo.com.ar)

**Web:** <http://www.ciop.unlp.edu.ar>



**Cargo docente:** Profesora Adjunta Facultad de Ingeniería, Universidad Nacional de La Plata (UNLP)

**Cargo de Investigación:** Investigadora Principal CONICET

### Áreas de investigación:

- Plasmónica
- Espectroscopía de extinción, espectroscopía Raman
- Fabricación de nanopartículas y nanoclusters en líquidos por ablación láser de femtosegundo
- Scattering óptico

### Publicaciones de los últimos años

**1) SIZING GOLD NANOPARTICLES BY OPTICAL EXTINCTION SPECTROSCOPY**

L. Scaffardi, N. Pellegrini, O. de Sanctis and J. O. Tocho  
Nanotechnology, I.O.P., Londres, Vol 16, pp 158 – 163 (2005), ISSN 0957-4484 (Print), ISSN 1361-6528 (Online)

**2) PROCEDIMIENTO ANALÍTICO Y DISPOSICIÓN PARA DETERMINAR EL TAMAÑO DE PARTÍCULAS SUSPENDIDAS EN UN MEDIO LÍQUIDO**

Lucía Scaffardi, Fabián Videla y Daniel Schinca

**Patente (CONICET-UNLP-CIC). INPI, acta N° P050101083**, presentada en febrero de 2005.

Publicada en Boletín de Patentes del INPI, 12 de julio de 2006, Boletín N° 363, pp. 12, Año X ISSN 0325-6545; <http://www.inpi.gov.ar/pdf/patentes/p120706.pdf>

**3) SIZING PARTICLES BY BACKSCATTERING SPECTROSCOPY AND FOURIER ANALYSIS**

F. Videla, D. Schinca y L. Scaffardi  
Optical Engineering, vol. 45, n° 4, 2006, 048001-9, (SPIE) Washington, ISSN: 0091-3286

**4) SIZE DEPENDENCE OF REFRACTIVE INDEX OF GOLD NANOPARTICLES**

Lucía B. Scaffardi and Jorge O. Tocho

Nanotechnology, I.O.P., Londres, Vol **17**, pp1309-1315, ISSN 0957-4484 (Print) (2006), ISSN 1361-6528 (Online)

**5) SIZE EFFECTS ON THE OPTICAL PROPERTIES OF METAL NANOPARTICLES: APPLICATIONS TO SIZING BY ANALYSIS OF EXTINCTION SPECTRA**

Lucía B. Scaffardi and Jorge O. Tocho

Capítulo 9, pp. 249-276, 2007

**Capítulo de libro (por invitación) en “Progress in nanotechnology Research”**

**Nova Editorial; Editors:** Eugene V. Dirote. **ISBN:** 1-60021-017-1 (Nova Science Publishers, Inc. 400 Oser Ave. Suite 1600, Hauppauge NY, 11788-3619, Phone: (631)231-7269, Fax: (631)231-8175, Email: [Novascience@earthlink.net](mailto:Novascience@earthlink.net));

**6) VISIBLE AND NEAR INFRARED BACKSCATTERING SPECTROSCOPY FOR SIZING SPHERICAL MICROPARTICLES**

L. B. Scaffardi, F. Videla and D. C. Schinca,

Appl. Opt. (OSA), Washington, **46**, 67-75, 2007, ISSN: 0003-6935 (print), ISSN: 1539-4522 (online)

**7) SIZING MICRO AND NANOPARTICLES BY OPTICAL SCATTERING SPECTROSCOPY**

L. B. Scaffardi, D. C. Schinca, F. Videla and J. O. Tocho

**Capítulo de la “Encyclopedia of Nanoscience and Nanotechnology”**, American Scientific Publishers, 2010, (en redacción)

**8) OPTICAL EXTINCTION SPECTROSCOPY USED TO CHARACTERIZE METALLIC NANOWIRES**

L. B. Scaffardi, M. Lester, D. Skigin and J. O. Tocho (Nanotechnology, **18**, 315402 (8pp), on-line, 2007), ISSN 0957-4484 (Print), ISSN 1361-6528 (Online)

**9) ABSORPTION SPECTRA OF TINY GOLD AND SILVER OBJECTS**

Lucía B. Scaffardi and Jorge O. Tocho

Journal of Luminiscence, vol. **128**, n° 5-6, 828-830 (2008), ISSN 0953-4075 (print); [doi:10.1016/j.jlumin.2007.11.017](https://doi.org/10.1016/j.jlumin.2007.11.017)

Proceeding of 16<sup>th</sup> International Conference on Dynamical Processes in excited States of solids (DPC 07), 17-22 june 2007, Segovia, Spain

**10) OPTICAL EXTINCTION FOR DETERMINING SIZE DISTRIBUTION OF GOLD NANOPARTICLES FABRICATED BY ULTRASHORT PULSED LASER ABLATION**

G. A. Torchia, L. B. Scaffardi, Cruz Méndez, Pablo Moreno, J. O. Tocho and Luis Roso Applied Physics A: Material Science & Processing, vol. **93**, n° 4, 2008, pp. 967-971; ISSN 0947-8396 (print), ISSN 1432-0630 (Online); DOI 10.1007/s00339-008-4761-2, 2008.

(Proceeding of - 9th International Conference on Laser Ablation (COLA 2007), Tenerife, Spain, 24-28 september 2007)

**11) OPTICAL PROPERTIES AND EXTINCTION SPECTROSCOPY TO CHARACTERIZE THE SYNTHESIS OF AMINE CAPPED SILVER NANOPARTICLES.**

María Virginia Roldán, Lucía B. Scaffardi, Oscar de Sanctis and Nora Pellegrini Materials Chemistry and Physics, 2008, **112**, 984-990, **ISSN** (printed): 0254-0584. [doi:10.1016/j.matchemphys.2008.06.057](https://doi.org/10.1016/j.matchemphys.2008.06.057), N° of pages: 7.

**12) CORE AND SHELL SIZING OF SMALL SILVER COATED NANOSPHERES BY OPTICAL EXTINCTION SPECTROSCOPY**

Daniel C. Schinca, Lucía B. Scaffardi

Nanotechnology 2008, **19**, 495712, 8 pp, ISSN 0957-4484 (Print), ISSN 1361-6528 (Online); [doi: 10.1088/0957-4484/19/49/495712](https://doi.org/10.1088/0957-4484/19/49/495712)

**13) SILVER-SILVER OXIDE CORE-SHELL NANOPARTICLES BY FEMTOSECOND LASER ABLATION. CHARACTERIZATION BY EXTINCTION SPECTROSCOPY**

D. C. Schinca, L. B. Scaffardi, F. A. Videla, G. A. Torchia, P. Moreno and L. Roso J. Phys. D: Appl. Phys. **42** (2009) 215102 (9pp); [doi: 10.1088/0022-3727/42/21/215102](https://doi.org/10.1088/0022-3727/42/21/215102)

**14) ROLE OF SUPERCONTINUUM IN THE FRAGMENTATION OF COLLOIDAL GOLD NANOPARTICLES IN SOLUTION**

Fabian A Videla, Gustavo A Torchia, Daniel C Schinca, Lucía B Scaffardi, Pablo Moreno, Cruz Méndez, Luis Roso, L. Giovanetti and Jose Ramallo Lopez  
Proceeding SPIE, 2009, Vol. 7405 74050U-1 a U12; doi: 10.1117/12.831032

**15) ANALYSIS OF THE MAIN OPTICAL MECHANISMS RESPONSIBLE FOR FRAGMENTATION OF GOLD NANOPARTICLES BY FEMTOSECOND LASER RADIATION**

F. A. Videla, G. A. Torchia, D. C. Schinca, L. B. Scaffardi, P. Moreno, C. Mendez, L. Giovanetti, J. Ramallo López and L. Roso, Journal of Applied Physics, **107**, 114308-1 to 114308-8, (2010)

**16) DETERMINATION OF NANOMETRIC Ag<sub>2</sub>O FILM THICKNESS BY SURFACE PLASMON RESONANCE AND OPTICAL WAVEGUIDE MODE COUPLING TECHNIQUES**

J. M. J. Santillán, L. B. Scaffardi, D. C. Schinca and F. A. Videla, J. Opt. 12 (2010) 045002 (8pp), ISSN 1464-4258 (Print). ISSN 1741-3567 (Online).

**17) ANALYSIS OF THE MAIN OPTICAL MECHANISMS RESPONSIBLE FOR FRAGMENTATION OF GOLD NANOPARTICLES BY FEMTOSECOND LASER RADIATION**

F. A. Videla, G. A. Torchia, D. C. Schinca, L. B. Scaffardi, P. Moreno, C. Méndez, L. J. Giovanetti, J. M. Ramallo Lopez, and L. Roso

Virtual Journal in Science & technology, Ultrafast Science - July 2010, section Photonics, Volume 9, Issue 7, ISSN 1553-9601, Princeton University, USA

**18) CHEMINFORM ABSTRACT: PHOTOISOMERIZATION DYNAMICS AND SPECTROSCOPY OF THE POLYMETHINE DYE DTCI**

R. E. Di Paolo, L. B. Scaffardi, R. Duchowicz and G. M. Bilmes

(Selected abstracts in Chemistry) Article first published online: 12 Aug. 2010, ChemInform Volume **27**, Issue 4, Online ISSN: 1522-2667,

DOI: 10.1002/chin.199604033; WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim  
<http://onlinelibrary.wiley.com/doi/10.1002/chin.199604033/abstract>

**19) QUANTITATIVE OPTICAL EXTINCTION-BASED PARAMETRIC METHOD FOR SIZING A SINGLE CORE-SHELL Ag-Ag<sub>2</sub>O NANOPARTICLE**

Jesica M. J. Santillán, L. B. Scaffardi and D. C. Schinca, J. Phys. D: Appl. Phys. (2011), **44**, 105104 (8 pp), ISSN: 1361-6463 (Online), 0022-3727 (Print). doi: 10.1088/0022-3727/44/10/105104

**20) METALLIC NANOTUBES CHARACTERIZATION VIA SURFACE PLASMON EXCITATION**

R. M. Abraham Ekeroth, M. Lester, L. B. Scaffardi and D. C. Schinca, Plasmonics, 2011, [Volume 6, Nº 3](#), 435-444, DOI: 10.1007/s11468-011-9222-7, PLAS274R1, Springer, ISSN 1557-1955

**21) PLASMON SPECTROSCOPY FOR SUBNANOMETRIC COPPER PARTICLES: DIELECTRIC FUNCTION AND CORE-SHELL SIZING**

J. M. J. Santillán, F. A. Videla, L. B. Scaffardi and D. C. Schinca, Plasmonics, 7 June 2012, pp. 1-8, versión online, DOI: 10.1007/s11468-012-9395-8, Springer, ISSN 1557-1963 (online)

**22) SIZE DEPENDENT CU DIELECTRIC FUNCTION FOR PLASMON SPECTROSCOPY. CHARACTERIZATION OF COLLOIDAL SUSPENSION GENERATED BY FS LASER ABLATION**

J. M. J. Santillán, F. A. Videla, M. B. Fernández van Raap, D. C. Schinca and L. B. Scaffardi, 2012, Journal of Appl. Physics, 112, 054319, pp. 1-8, ISSN (printed): 0021-8979. ISSN (online): 1089-7550.

**23) PLASMONIC PROPERTIES AND SIZING OF CORE-SHELL CU-CU<sub>2</sub>O NANOPARTICLES FABRICATED BY FEMTOSECOND LASER ABLATION IN LIQUIDS**

J. M. J. Santillán, F. A. Videla, D. C. Schinca and L. B. Scaffardi

Plasmonics: Metallic Nanostructures and Their Optical Properties X, edited by Mark I. Stockman, Proc. of SPIE Vol. 8457, 84572U-1 a 8, doi: 10.1117/12.928670

NanoScience + Engineering - SPIE Optics + Photonics, ISSN 1945-0699, 12 - 16 August 2012, San Diego Convention Center, San Diego, California, USA

**24) ANALYSIS OF THE STRUCTURE, CONFIGURATION AND SIZING OF CU AND CU OXIDE NANOPARTICLES GENERATED BY FS LASER ABLATION OF SOLID TARGET IN LIQUIDS**

J. M. J. Santillán, F. A. Videla, M. B. Fernández van Raap, D. C. Schinca and L. B. Scaffardi

J. Appl. Phys. 113, 134305 (2013); <http://dx.doi.org/10.1063/1.4798387> (9 pages)

**25) PLASMON SPECTROSCOPY FOR SUBNANOMETRIC COPPER PARTICLES: DIELECTRIC FUNCTION AND CORE-SHELL SIZING**

J. M. J. Santillán, F. A. Videla, L. B. Scaffardi and D. C. Schinca, Plasmonics, June 2013, Volume 8, Issue 2, pp 341-348, versión impresa, Springer, ISSN 1557-1955 (print)

**26) SIZE-DEPENDENT OPTICAL PROPERTIES OF METALLIC NANOSTRUCTURES**

Lucía B. Scaffardi, Daniel C. Schinca, Marcelo Lester, Fabián A. Videla, Jesica M. J. Santillán and Ricardo M. Abraham Ekeroth

Capítulo de libro por invitación Ed. Springer, 2011-2012, 179-229 (67 páginas), en prensa en 2012, publicado en 2013.

Este capítulo está incluido en el libro titulado: "UV-VIS AND PHOTOLUMINESCENCE SPECTROSCOPY FOR NANOMATERIALS CHARACTERIZATION", Ed. Challa Kumar, SPRINGER, 2013, XII, 600 p., I

eBook (2012): ISBN 978-3-642-27594-4 ; Hardcover (2013): ISBN 978-3-642-27593-7

**27) INFLUENCE OF SIZE-CORRECTED BOUND ELECTRON CONTRIBUTION ON NANOMETRIC SILVER DIELECTRIC FUNCTION. SIZING THROUGH OPTICAL EXTINCTION SPECTROSCOPY**

J M J Santillán, F A Videla, M B Fernández van Raap, D Muraca, L B Scaffardi and D C Schinca, Journal of Physics D: Applied physics, ISSN: 1361-6463 (Online), 0022-3727 (Print). JOPDAP, 2013, 46, N° 43, 435301-11 doi:10.1088/0022-3727/46/43/435301

**28) CONTROL OF THE DIFFRACTED RESPONSE OF A METALLIC WIRE ARRAY WITH DOUBLE PERIOD: EXPERIMENTAL DEMONSTRATION**

D. C. Skigin, J. D. Fowlkes, N. A. Roberts, L. B. Scaffardi, D. C. Schinca and M. Lester, OPTICS LETTERS, Vol. 39, N° 19, October 15, 2014, pp. 5693-5696

**29) DETERMINATION OF PLASMA FREQUENCY, DAMPING CONSTANT AND SIZE DISTRIBUTION FROM THE COMPLEX DIELECTRIC FUNCTION OF NOBLE METAL NANOPARTICLES**

Luis J. Mendoza Herrera, David Muñetón Arboleda, Daniel C. Schinca and Lucía B. Scaffardi, Journal of Applied Physics JAP, 2014, 116, 233105-1 a 233105-8, DOI: 10.1063/1.4904349

**30) AG NANOPARTICLES FORMED BY FEMTOSECOND PULSE LASER ABLATION IN WATER: SELF-ASSEMBLED FRACTAL STRUCTURES**

Jesica M. J. Santillán, Marcela B. Fernández van Raap, Pedro Mendoza Zélis, Diego Coral, Diego Muraca, Daniel C. Schinca and Lucía B. Scaffardi, J. Nanopart Res. (JNR) February 2015, 17:86, 1-13, DOI: 10.1007/s11051-015-2894-8, Print ISSN 1388-0764, Online ISSN 1572-896X

**31) SYNTHESIS OF NI NANOPARTICLES BY FS LASER ABLATION IN LIQUIDS: STRUCTURE AND SIZING**

David Muñetón Arboleda, Jesica M. J. Santillán, Luis J. Mendoza Herrera, Marcela B. Fernández van Raap, Pedro Mendoza Zélis, Diego Muraca, Daniel C. Schinca and Lucía B. Scaffardi, Journal of Phys. Chem. C, 2015, 119 (23), 13184-13193, DOI: 10.1021/acs.jpcc.5b03124

**32) STRUCTURE, CONFIGURATION AND SIZING OF NI NANOPARTICLES GENERATED BY ULTRAFast LASER ABLATION IN DIFFERENT MEDIA**

D. Muñetón Arboleda, J. M. J. Santillán, L. J. Mendoza Herrera, M. B. Fernández van Raap, D. Muraca, D. C. Schinca and L. B. Scaffardi

Proc. SPIE 9547, Plasmonics: Metallic Nanostructures and Their Optical Properties XIII, 95473J (August 28, 2015) (9 pages); doi:10.1117/12.2190421

**33) SIZE-DEPENDENT COMPLEX DIELECTRIC FUNCTION OF NI, MO, W, PB, ZN AND NA NANOPARTICLES. APPLICATION TO SIZING**

David Muñetón Arboleda, Jesica M. J. Santillán, Luis J. Mendoza Herrera, Diego Muraca, Daniel C. Schinca and Lucía B. Scaffardi, *Journal of Physics D: Applied Physics*, 49, 2016, 075302 (10pp), doi:10.1088/0022-3727/49/7/075302

**34) THE ROLE OF AFM, HRTEM, SAXS AND OPTICAL SPECTROSCOPY IN SIZING CU, AG, FE AND NI NANOPARTICLES GENERATED BY ULTRAFAST LASER ABLATION OF SOLID TARGETS IN DIFFERENT LIQUID MEDIA**

Marcela B. Fernández van Raap, Jesica M. J. Santillán, Diego Muraca, David Muñetón Arboleda, Pedro Mendoza Zélis, D. F. Coral, Daniel C. Schinca and Lucía B. Scaffardi 4° Congreso de la Asociación Argentina de Microscopía (SAMIC 2016), *Acta Microscópica*, Vol. 25 Supp. A., pp. 207-208, abril de 2016, Bariloche, Argentina

**35) HIGH SPECTRAL FIELD ENHANCEMENT AND TUNABILITY IN CORE-DOUBLE SHELL METAL-DIELECTRIC-METAL SPHERICAL NANOPARTICLES**

Luis J. Mendoza Herrera, Lucía B. Scaffardi and Daniel C. Schinca, *RSC Advances*, 2016, 6, 110471-110481, DOI: 10.1039/C6RA19349H

**36) NANOSCALE DIELECTRIC FUNCTION OF FE, PT, TI, TA, AL AND V: APPLICATION TO CHARACTERIZATION OF AL NANOPARTICLES SYNTHESIZED BY FS LASER ABLATION**

Luis J. Mendoza Herrera, David Muñetón Arboleda, Jesica M. J. Santillán, Marcela B. Fernández van Raap, Lucía B. Scaffardi and Daniel C. Schinca, *Plasmonics* (2016). DOI:10.1007/s11468-016-0449-1, pp 1-12

**37) SIZING AND EDDY CURRENTS IN MAGNETIC CORE NANOPARTICLES: AN OPTICAL EXTINCTION APPROACH**

Luis Joaquín Mendoza Herrera, Ignacio J. Bruvera, Lucía B. Scaffardi and Daniel Carlos Schinca, *Phys. Chem. Chem. Phys* (print), 2017, 19 (4), 3076 – 3083, DOI: 10.1039/C6CP08260B, pp 1-8

**38) OPTICAL AND MAGNETIC PROPERTIES OF FE NANOPARTICLES FABRICATED BY FS LASER ABLATION IN ORGANIC AND INORGANIC SOLVENTS**

Jesica M. J. Santillán, David Muñetón, Diego F. Coral, Marcela B. Fernández van Raap, Diego Muraca, Daniel C. Schinca and Lucía B. Scaffardi *Chem Phys Chem*. Accepted manuscript, DOI:10.1002/CPHC.201601279, March 2017

**39) CHARACTERIZATION AND STABILITY OF SILVER NANOPARTICLES IN STARCH SOLUTION OBTAINED BY FEMTOSECOND LASER ABLATION AND SALT REDUCTION**

Valeria B. Arce, Jesica M. J. Santillán, David Muñetón Arboleda, Diego Muraca, Lucía B. Scaffardi and Daniel C. Schinca, *J. Phys. Chem. C*, April 24, 2017, 121 (19), pp 10501–10513, DOI: 10.1021/acs.jpcc.6b12384

**40) STUDIES OF OPTICAL AND MAGNETIC RESPONSES OF IRON NANOPARTICLES OBTAINED BY FEMTOSECOND LASER ABLATION**

David Muñetón Arboleda, Jesica M. J. Santillán, Daniel C. Schinca and Lucía B. Scaffardi

Proceeding OSA: FIO/LS: Frontiers in Optics/Laser Science, OSA, Washington, 16 a 21 de septiembre de 2017, ISBN: 978-1-943580-33-0  
OSA Publishing > Conference Papers > LS > 2017 > JW3A > Page JW3A.86  
<https://doi.org/10.1364/FIO.2017.JW3A.86>

**41) A SIMPLE AND “GREEN” TECHNIQUE TO SYNTHESIZE LONG-TERM STABILITY COLLOIDAL AG NANOPARTICLES: FS LASER ABLATION IN A BIOCOMPATIBLE AQUEOUS MEDIUM**

David Muñetón Arboleda, Jesica M. J. Santillán, Valeria B. Arce, Marcela B. Fernández van Raap, Diego Muraca, Mariela A. Fernández, Rosa M. Torres Sanchez, Daniel C. Schinca and Lucía B. Scaffardi  
*Materials characterization*, abril 2018, 140 (2018) 320–332.  
<https://doi.org/10.1016/j.matchar.2018.04.021>

**42) SYNTHESIS AND CHARACTERIZATION OF MAGNETIC NANOPARTICLE COLLOIDS GENERATED IN LIQUID MEDIA BY UPLA**

Santillán, Jesica M. J., Muñetón Arboleda, David, Fernández van Raap, Marcela B., Schinca, Daniel C. and Scaffardi, Lucía B.

Proceeding Latin America Optics and Photonics Conference, OSA 2018, Lima Perú, 12–15 November 2018, ISBN: 978-1-943580-49-1,  
<https://www.osapublishing.org/abstract.cfm?uri=LAOP-2018-Tu4A.31>  
<https://doi.org/10.1364/LAOP.2018.Tu4A.31>

**43) IN-SITU ELECTRON MICROSCOPY OBSERVATION OF THE REDOX PROCESS IN PLASMONIC HETEROGENEOUS-PHOTO-SENSITIVE NANOPARTICLES**

D. Muraca, L. B. Scaffardi, J. M. J Santillán, D. Muñetón Arboleda, D. C. Schinca and J. Bettini, *Nanoscale Advances*, 2019, 1, 3909 – 3917, DOI: 10.1039/C9NA00469F, e-ISSN 2516-0230

**44) HIGH FLUORESCENCE AND STRONG PHOTOCATALYTIC ACTIVITY OF FEW ATOMS SILVER NANOCCLUSERS SYNTHESIZED BY ULTRASHORT LIGHT PULSES**

Jesica M. J. Santillán, David Muñetón Arboleda, Diego Muraca, Daniel C. Schinca and Lucía B. Scaffardi, *Scientific Reports, Nature*, mayo 2020 DOI : 10.1038/s41598-020-64773-z

**45) LIGAND-FREE FEW ATOMS AG NANOCCLUSERS SYNTHESIS AND THEIR POTENTIAL APPLICATION AS PHOTOCATALYTIC AGENTS**

Jesica M. J. Santillán, David Muñetón Arboleda, Diego Muraca, Daniel C. Schinca and Lucía B. Scaffardi, *Journal of Nanotechnology and Nanomaterials* ISSN: 2692-630X, (Scientific Archives) 2020, volume 1, issue 2, pp. 65-71.

**46) A SIMPLE AND GREEN TECHNIQUE TO SYNTHESIZE METAL NANOCCLUSERS BY ULTRASHORT LIGHT PULSES**

Jesica María José Santillán, David Muñetón Arboleda, Valeria Beatriz Arce, Lucía Beatriz Scaffardi, Daniel Carlos Schinca, ISBN 978-1-83962-969-3, Capítulo de libro Intech Open, "Colloids - Types, Preparation and Applications", 2020

<http://dx.doi.org/10.5772/intechopen.94750>

Link del chapter: <https://www.intechopen.com/online-first/a-simple-and-green-technique-to-synthesize-metal-nanocolloids-by-ultrashort-light-pulses>

**47) MEASUREMENT OF LATEX MICROPARTICLE SIZE BY DYNAMIC SPECKLE TECHNIQUE**

Luis J. Mendoza Herrera, Daniel C. Schinca, Lucía B. Scaffardi, Eduardo E. Grumel and Marcelo R. Trivi, *Optics and Lasers in Engineering* 140 (2021) 106528 (1-8), <https://doi.org/10.1016/j.optlaseng.2020.106528>